

IN THE CLAIMS:

Please amend claims 16 and 26 as shown in the following complete listing:

Claims **1–12**: (canceled)

13. (previously presented) An adduct comprising MgCl_2 , ethanol and a Lewis base (LB) different from water, said adduct further comprising a fusion enthalpy lower than 100 J/g, and formula $\text{MgCl}_2 \cdot (\text{EtOH})_n (\text{LB})_p$, wherein n is from 2 to 6 and p is $0 < p/(n+p) \leq 0.1$.

14. (previously presented) The adduct according to claim **13**, wherein p is $0 < p/(n+p) \leq 0.0125$.

15. (previously presented) The adduct according to claim **13**, wherein the Lewis base is selected from ethers, esters, compounds of formula RX_m , and combinations thereof, wherein R is a hydrocarbon group comprising from 1 to 20 carbon atoms; X is $-\text{NH}_2$, $-\text{NHR}$ or $-\text{OH}$; and m is 1 or higher.

16. (currently amended) The adduct of claim **15**, wherein RX_m is selected from the group consisting of methanol, propanol, isopropanol, n-butanol, sec-butanol, tert-butanol, pentanol, 2-methyl-1-pentanol, 2-ethyl-1-hexanol, phenol, 4-methyl-1-phenol, 2,6-dimethyl-1-phenol, cyclohexanol, cyclopentanol, ~~ethylen glycol, propylen glycol, 4-butanediol,~~ ethylene glycol, propylene glycol, 1,4-butanediol, glycerine, mannitol, polyvinyl-alcohol, acetonitrile, ~~ethylenediammine, 3-picoline, triethanolammine, triethylammine, and diisopropylammine~~ ethylenediamine, 3-picoline, triethanolamine, triethylamine, and diisopropylamine.

17. (canceled)

18. (previously presented) A catalyst component for polymerizing at least one olefin comprising a product of a reaction between a transition metal compound and the adduct according to claim **13**.

19. (previously presented) The catalyst component according to claim **18**, wherein the transition metal compound is selected from at least one titanium compound comprising formula $Ti(OR)_nX_{y-n}$, wherein n is between 0 and y ; y is a valence of titanium; X is halogen; and R is an alkyl radical comprising 1-8 carbon atoms, or COR , wherein R is a hydrocarbon group comprising from 1 to 20 carbon atoms.

20. (previously presented) The catalyst component according to claim **19**, wherein the titanium compound is selected from $TiCl_3$, $TiCl_4$, $Ti(OBu)_4$, $Ti(OBu)Cl_3$, $Ti(OBu)_2Cl_2$, and $Ti(OBu)_3Cl$.

21. (previously presented) The catalyst component according to claim **18**, wherein the reaction between the transition metal compound and the adduct is carried out in presence of an electron donor compound.

22. (previously presented) The catalyst component according to claim **21**, wherein the electron donor is selected from esters, ethers, amines, and ketones.

23. (previously presented) A catalyst for polymerizing at least one olefin comprising a product of a reaction between the catalyst component according to claim **19**, and an aluminum alkyl compound.

24. (previously presented) A process for polymerizing at least one olefin of formula $CH_2=CHR$, wherein R is hydrogen or a hydrocarbon radical comprising 1-12 carbon atoms, carried out in presence of the catalyst according to claim **23**.

25. (previously presented) An adduct comprising MgCl_2 , ethanol and a Lewis base (LB) different from water, said adduct further comprising formula $\text{MgCl}_2 \cdot (\text{EtOH})_n (\text{LB})_p$, wherein n is from 2 to 6 and p is $0 < p/(n+p) \leq 0.0125$.

26. (currently amended) An adduct comprising MgCl_2 , ethanol and a Lewis base (LB) different from water, said adduct further comprising formula $\text{MgCl}_2 \cdot (\text{EtOH})_n (\text{LB})_p$, wherein n is from 2 to 6 and p is $0 < p/(n+p) \leq 0.1$, and said Lewis base is selected from the group consisting of methanol, propanol, isopropanol, n-butanol, sec-butanol, tert-butanol, pentanol, 2-methyl-1-pentanol, 2-ethyl-1-hexanol, phenol, 4-methyl-1-phenol, 2,6-dimethyl-1-phenol, cyclohexanol, cyclopentanol, ~~ethylen glycol, propylen glycol, 4-butanediol,~~ ethylene glycol, propylene glycol, 1,4-butanediol, glycerine, mannitol, polyvinyl-alcohol, acetonitrile, ~~ethylenediammine, 3-picoline, triethanolammine, triethylammine, and diisopropylammine~~ ethylenediamine, 3-picoline, triethanolamine, triethylamine, and diisopropylamine.